

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	(None, 1)	0
lambda_1 (Lambda)	(None, 512)	0
dense_1 (Dense)	(None, 128)	65664
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 1)	129
Total params: 65,793		
Trainable params: 65,793		
Non-trainable params: 0		

Train on 210000 samples, validate on 34999 samples

Epoch 1/50
210000/210000 [=====] - 370s 2ms/step - loss: 0.3358 - acc: 0.8523 - val_loss: 0.3116 - val_acc: 0.8653
Epoch 2/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.3063 - acc: 0.8678 - val_loss: 0.2950 - val_acc: 0.8733
Epoch 3/50
210000/210000 [=====] - 364s 2ms/step - loss: 0.2927 - acc: 0.8753 - val_loss: 0.2846 - val_acc: 0.8779
Epoch 4/50
210000/210000 [=====] - 367s 2ms/step - loss: 0.2822 - acc: 0.8798 - val_loss: 0.2818 - val_acc: 0.8789
Epoch 5/50
210000/210000 [=====] - 364s 2ms/step - loss: 0.2716 - acc: 0.8858 - val_loss: 0.2648 - val_acc: 0.8886
Epoch 6/50
210000/210000 [=====] - 368s 2ms/step - loss: 0.2629 - acc: 0.8900 - val_loss: 0.2539 - val_acc: 0.8940
Epoch 7/50
210000/210000 [=====] - 363s 2ms/step - loss: 0.2537 - acc: 0.8952 - val_loss: 0.2466 - val_acc: 0.8969
Epoch 8/50
210000/210000 [=====] - 365s 2ms/step - loss: 0.2459 - acc: 0.8985 - val_loss: 0.2412 - val_acc: 0.8996
Epoch 9/50
210000/210000 [=====] - 364s 2ms/step - loss: 0.2370 - acc: 0.9028 - val_loss: 0.2282 - val_acc: 0.9085
Epoch 10/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.2291 - acc: 0.9063 - val_loss: 0.2193 - val_acc: 0.9113
Epoch 11/50
210000/210000 [=====] - 364s 2ms/step - loss: 0.2222 - acc: 0.9098 - val_loss: 0.2082 - val_acc: 0.9169
Epoch 12/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.2153 - acc: 0.9130 - val_loss: 0.2025 - val_acc: 0.9200
Epoch 13/50
210000/210000 [=====] - 365s 2ms/step - loss: 0.2072 - acc: 0.9163 - val_loss: 0.1989 - val_acc: 0.9217
Epoch 14/50
210000/210000 [=====] - 364s 2ms/step - loss: 0.2021 - acc: 0.9183 - val_loss: 0.1926 - val_acc: 0.9229
Epoch 15/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.1954 - acc: 0.9218 - val_loss: 0.1847 - val_acc: 0.9282
Epoch 16/50
210000/210000 [=====] - 365s 2ms/step - loss: 0.1894 - acc: 0.9240 - val_loss: 0.1780 - val_acc: 0.9292
Epoch 17/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.1837 - acc: 0.9271 - val_loss: 0.1674 - val_acc: 0.9363
Epoch 18/50
210000/210000 [=====] - 364s 2ms/step - loss: 0.1796 - acc: 0.9283 - val_loss: 0.1653 - val_acc: 0.9367
Epoch 19/50
210000/210000 [=====] - 364s 2ms/step - loss: 0.1743 - acc: 0.9305 - val_loss: 0.1578 - val_acc: 0.9412
Epoch 20/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.1700 - acc: 0.9322 - val_loss: 0.1581 - val_acc: 0.9403
Epoch 21/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.1652 - acc: 0.9347 - val_loss: 0.1479 - val_acc: 0.9455
Epoch 22/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.1618 - acc: 0.9356 - val_loss: 0.1445 - val_acc: 0.9465
Epoch 23/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.1568 - acc: 0.9381 - val_loss: 0.1418 - val_acc: 0.9476
Epoch 24/50
210000/210000 [=====] - 365s 2ms/step - loss: 0.1542 - acc: 0.9389 - val_loss: 0.1324 - val_acc: 0.9519
Epoch 25/50
210000/210000 [=====] - 364s 2ms/step - loss: 0.1500 - acc: 0.9403 - val_loss: 0.1288 - val_acc: 0.9538
Epoch 26/50
210000/210000 [=====] - 365s 2ms/step - loss: 0.1466 - acc: 0.9416 - val_loss: 0.1255 - val_acc: 0.9553
Epoch 27/50

210000/210000 [=====] - 364s 2ms/step - loss: 0.1438 - acc: 0.9436 - val_loss: 0.1247 - val_acc: 0.9564
Epoch 28/50
50/210000 [.....] - ETA: 4:22 - loss: 0.0682 - acc: 1.0000C:\Users\shaggyday\AppData\Local\Programs\Python\Python37\lib\site-packages\keras\callbacks.py:122: UserWarning: Method on_batch_end() is slow compared to the batch update (0.390536). Check your callbacks.
% delta_t_median)
100/210000 [.....] - ETA: 20:13 - loss: 0.1134 - acc: 0.9800C:\Users\shaggyday\AppData\Local\Programs\Python\Python37\lib\site-packages\keras\callbacks.py:122: UserWarning: Method on_batch_end() is slow compared to the batch update (0.195268). Check your callbacks.
% delta_t_median)
210000/210000 [=====] - 366s 2ms/step - loss: 0.1398 - acc: 0.9457 - val_loss: 0.1199 - val_acc: 0.9579
Epoch 29/50
210000/210000 [=====] - 365s 2ms/step - loss: 0.1370 - acc: 0.9465 - val_loss: 0.1175 - val_acc: 0.9595
Epoch 30/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.1340 - acc: 0.9478 - val_loss: 0.1131 - val_acc: 0.9597
Epoch 31/50
210000/210000 [=====] - 365s 2ms/step - loss: 0.1315 - acc: 0.9488 - val_loss: 0.1111 - val_acc: 0.9613
Epoch 32/50
210000/210000 [=====] - 364s 2ms/step - loss: 0.1287 - acc: 0.9494 - val_loss: 0.1068 - val_acc: 0.9642
Epoch 33/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.1261 - acc: 0.9512 - val_loss: 0.1017 - val_acc: 0.9650
Epoch 34/50
210000/210000 [=====] - 349s 2ms/step - loss: 0.1233 - acc: 0.9521 - val_loss: 0.1007 - val_acc: 0.9655
Epoch 35/50
50/210000 [.....] - ETA: 4:21 - loss: 0.1042 - acc: 0.9800C:\Users\shaggyday\AppData\Local\Programs\Python\Python37\lib\site-packages\keras\callbacks.py:122: UserWarning: Method on_batch_end() is slow compared to the batch update (0.390886). Check your callbacks.
% delta_t_median)
100/210000 [.....] - ETA: 18:34 - loss: 0.0771 - acc: 0.9800C:\Users\shaggyday\AppData\Local\Programs\Python\Python37\lib\site-packages\keras\callbacks.py:122: UserWarning: Method on_batch_end() is slow compared to the batch update (0.195443). Check your callbacks.
% delta_t_median)
210000/210000 [=====] - 365s 2ms/step - loss: 0.1224 - acc: 0.9522 - val_loss: 0.0964 - val_acc: 0.9672
Epoch 36/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.1182 - acc: 0.9537 - val_loss: 0.0955 - val_acc: 0.9668
Epoch 37/50
210000/210000 [=====] - 364s 2ms/step - loss: 0.1181 - acc: 0.9538 - val_loss: 0.0918 - val_acc: 0.9685
Epoch 38/50
210000/210000 [=====] - 365s 2ms/step - loss: 0.1152 - acc: 0.9552 - val_loss: 0.0934 - val_acc: 0.9668
Epoch 39/50
210000/210000 [=====] - 364s 2ms/step - loss: 0.1139 - acc: 0.9555 - val_loss: 0.0875 - val_acc: 0.9705
Epoch 40/50
210000/210000 [=====] - 376s 2ms/step - loss: 0.1110 - acc: 0.9563 - val_loss: 0.0905 - val_acc: 0.9690
Epoch 41/50
210000/210000 [=====] - 373s 2ms/step - loss: 0.1093 - acc: 0.9578 - val_loss: 0.0876 - val_acc: 0.9694
Epoch 42/50
210000/210000 [=====] - 350s 2ms/step - loss: 0.1072 - acc: 0.9586 - val_loss: 0.0786 - val_acc: 0.9731
Epoch 43/50
210000/210000 [=====] - 374s 2ms/step - loss: 0.1061 - acc: 0.9586 - val_loss: 0.0778 - val_acc: 0.9743
Epoch 44/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.1033 - acc: 0.9599 - val_loss: 0.0770 - val_acc: 0.9740
Epoch 45/50
210000/210000 [=====] - 364s 2ms/step - loss: 0.1033 - acc: 0.9601 - val_loss: 0.0756 - val_acc: 0.9748
Epoch 46/50
210000/210000 [=====] - 358s 2ms/step - loss: 0.1011 - acc: 0.9607 - val_loss: 0.0768 - val_acc: 0.9735
Epoch 47/50
210000/210000 [=====] - 366s 2ms/step - loss: 0.0998 - acc: 0.9612 - val_loss: 0.0722 - val_acc: 0.9760
Epoch 48/50
210000/210000 [=====] - 365s 2ms/step - loss: 0.0988 - acc: 0.9616 - val_loss: 0.0730 - val_acc: 0.9758
Epoch 49/50
210000/210000 [=====] - 349s 2ms/step - loss: 0.0969 - acc: 0.9623 - val_loss: 0.0718 - val_acc: 0.9769
Epoch 50/50
210000/210000 [=====] - 349s 2ms/step - loss: 0.0943 - acc: 0.9630 - val_loss: 0.0692 - val_acc: 0.9783
105001/105001 [=====] - 141s 1ms/step

Test score: 0.07076520350069267

Test accuracy: 0.9777525928324492

